

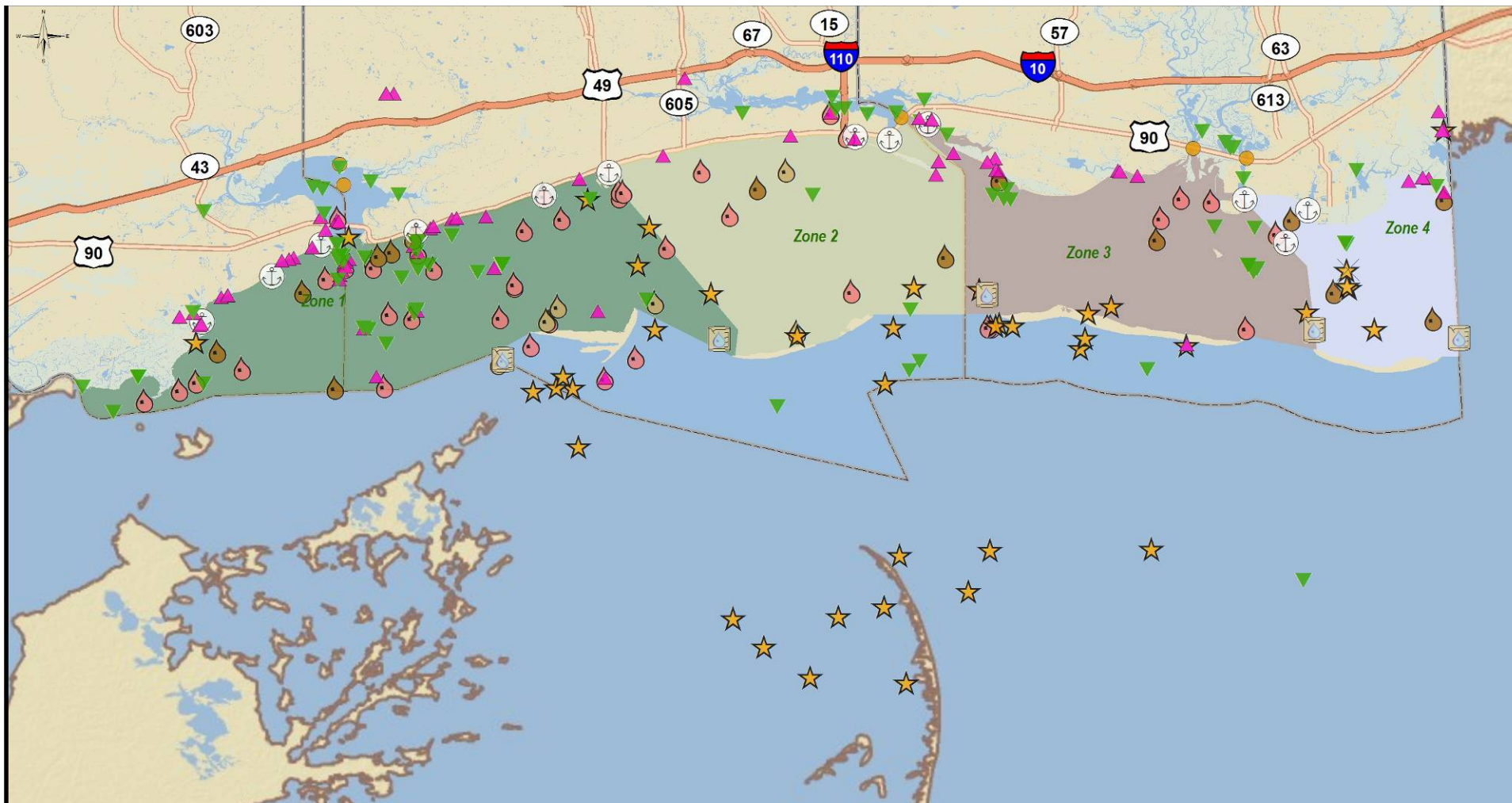
Summary of Sample Collection Activities



Types of Activities

- NRDA Baseline – 77 sites (180 samples)
- Air / Boat recon – 51 sites (56 samples)
- Sentinel – Island Pass Sampling – 5 sites
 - 296 samples (May 19 – Aug 6)
- Bay & Estuary (2/WK) – 5 sites (40 samples)
- Harbors - 12
- Tissue - 197
- Complaints / VoO reports - 44
- Submerged Oil Survey





Sampling Locations

This map produced by the Department of Environmental Quality (MDEQ), Office of Pollution Control.
All map data are from ArcGISOnline and MDEQ.
Map Projection: WGS1984
The Mississippi Department of Environmental Quality makes no warranties, expressed or implied, as to the accuracy, completeness, currentness, reliability, or suitability for any particular purpose of the data contained on this map.



- | Response Sampling | Submerged Oil |
|--------------------|------------------------------|
| ★ AIR & BOAT RECON | 🔴 MDEQ/non-VoO |
| 🟡 BAY ESTUARINE | 🟤 MDEQ/non-VoO with Sediment |
| 🔴 COMPLAINT/OTHER | 🟡 MDEQ/VoO |
| ⚓ HARBOR SAMPLES | |
| 📦 PASS SITES | |
| 🟢 TISSUE | |
- 0 5 10 Miles
Map prepared on 27Aug2010

Results Summary



Samples Collected

- Total Sites – 279
- Total Samples – 807
 - Water – 560
 - Sediment – 92
 - Tissue – 108
 - Other (tar balls, rain water, leachate, etc.) - 47



Submerged Oil Survey Plan

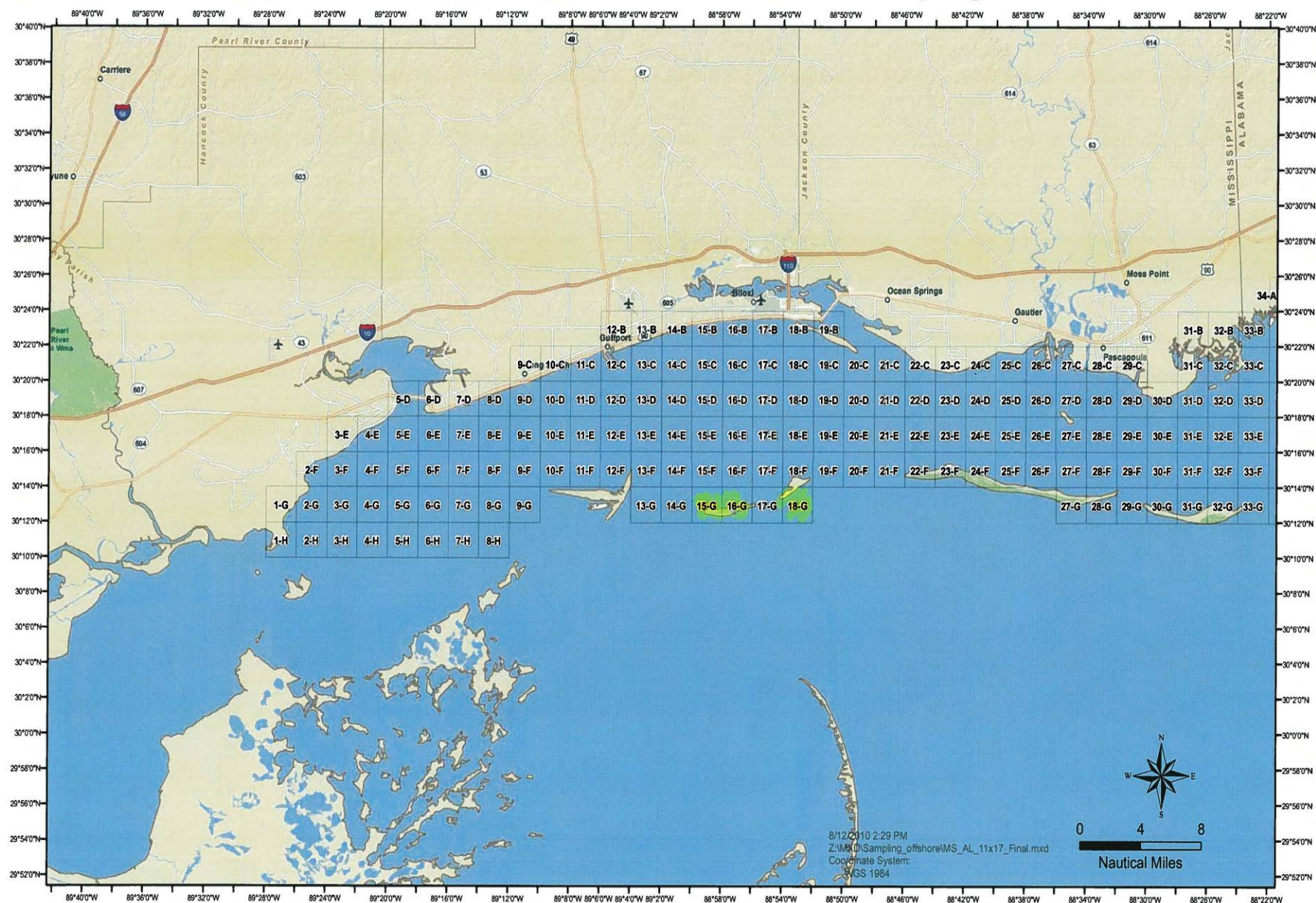
Partner with UIC Mobile

- Purpose – search for presence of subsurface material in the MS Sound (recoverable)
 - 26 Vessels of Opportunity – pad survey
 - 6 DEQ skimmers – sampling
 - Oil Range Organics, Diesel Range Organics, Gasoline Range Organics, Semi-Volatile compounds, Volatile compounds, Dispersants, Plankton and adsorbent pads for ORO
 - 1 Fluorometer Vessel (VoO)
 - 1 Sediment Vessel (VoO)

Submerged Oil Survey Plan



Grid of Operations for Submerged Oil Surveillance and Sampling Initiatives - MS



Sorbent Probe Tactic (water column search)

- VoO lowers sorbent material slowly thru water to near the bottom
- DEQ sampling vessel is called for any suspect material
- DEQ vessel duplicates procedure
- Repeats at 100 yd increments N,S,E,W
- Expose pad material to water collected at discreet depths in the water column
- Collect water samples



SUBSURFACE ASSESSMENT PROJECT

Sorbent Probe Water Survey and Sampling - August 23, 2010

Legend

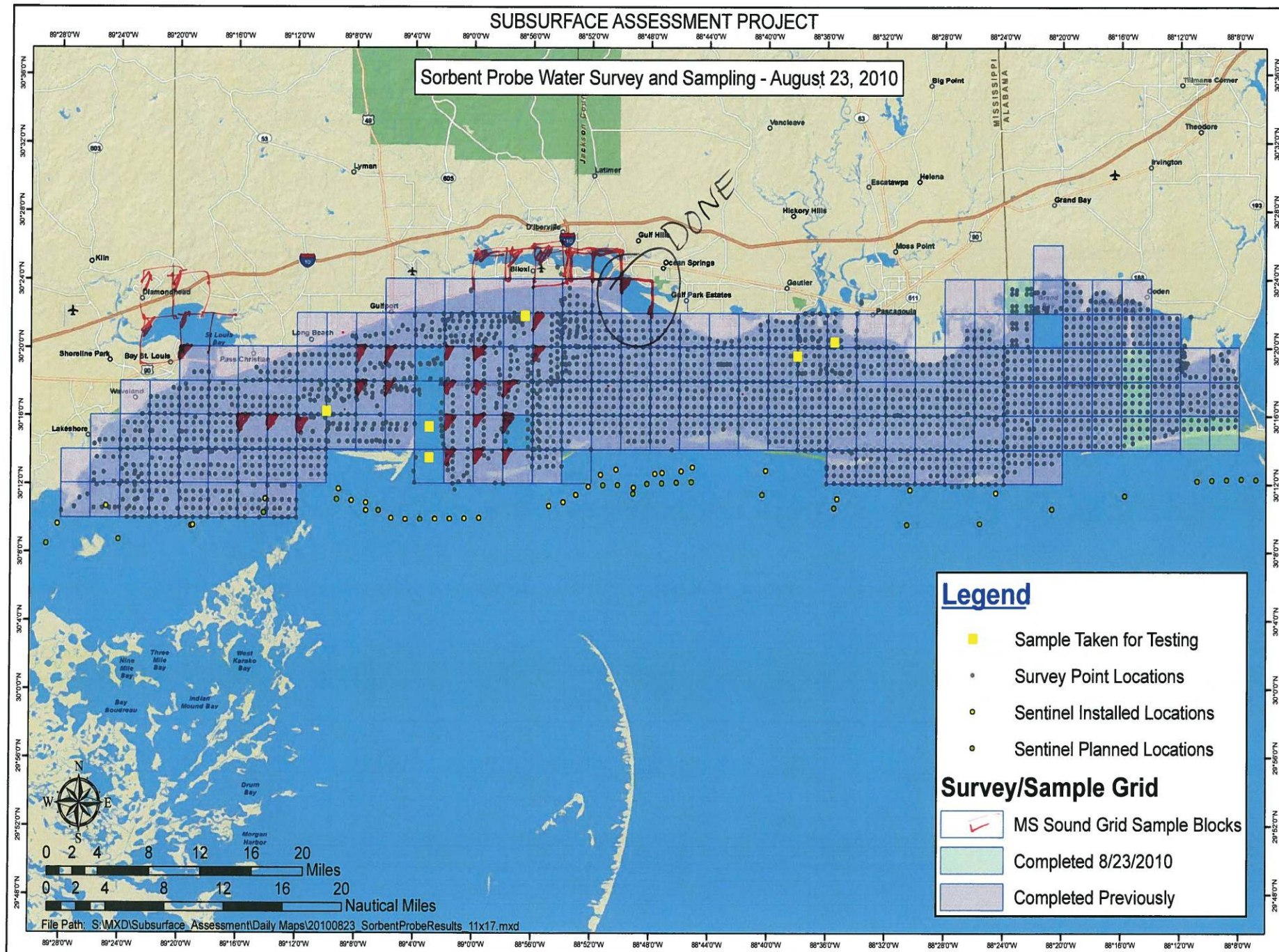
- Sample Taken for Testing
- Survey Point Locations
- Sentinel Installed Locations
- Sentinel Planned Locations

Survey/Sample Grid

- ✓ MS Sound Grid Sample Blocks
- Completed 8/23/2010
- Completed Previously



File Path: S:\MXD\Subsurface_Assessment\Daily Maps\20100823_SorbentProbeResults_11x17.mxd





Submerged Oil Survey Summary

- 2100 adsorbent pad drops
 - 6 suspect areas sampled for water column
 - 3 additional sites sampled due to presence of light sheen
- 45 sediment sites screened
 - 10 samples collected for analysis
- No Oil found with Fluorometer
 - 59% complete



Submerged Oil Survey

Sample Results

- Water samples (4 complete)
 - non-detect on chemical parameters
 - Plankton being analyzed at GCRL
- Sediment
 - None determined to contain oil by FTIR analysis
- Pads - ????



329 mg/kg



30° 16' 15"
89° 10' 00"

387 mg/kg



30 19.484
89 07.667

794 mg/kg



30 20.50
88 37.00

2430 mg/kg



30 11.00
89 26.06

Blank Pads Avg - 2633 mg/kg

Continuing Activities by DEQ

- Additional sample sites
- Response to direct calls from public
- Respond to reports by fishermen
- Natural Resource Damage Assessment





Algal Bloom

Ceratium sp.



